

March 1967

U. S. DEPARTMENT OF LABOR
BUREAU OF LABOR STATISTICS
WASHINGTON, D.C. 20212

INDEXES OF OUTPUT PER MAN-HOUR FOR THE PRIVATE ECONOMY,
1947-66

The attached tables extend the indexes of output per man-hour for the private economy and major sectors through 1966. These indexes, prepared annually by the U.S. Department of Labor, Bureau of Labor Statistics, cover the total private economy and the farm and nonfarm sectors. In addition to the output per man-hour measures, related indexes of output, employment, and man-hours are included.

The output indexes are based on data published by the Office of Business Economics, U.S. Department of Commerce. The concept used is that of gross national product with the estimates consisting of the constant dollar value of final goods and services produced, excluding the value of intermediate products. Output per man-hour as used in these indexes is the ratio of output, defined in this way, to the hours of all persons in private industry engaged in production, including the man-hours of proprietors and unpaid family workers as well as of wage and salary employees.

Two separate series are shown for the man-hour and the related output per man-hour measures. One set is based primarily on establishment reports of payroll hours; the other, on labor force reports approximating hours worked and obtained from a sample survey of households.

The measures relate output to man-hours and to employment. They do not reflect the specific contribution of labor, capital, or any other factor of production. Rather, they measure the combined effect of a number of interrelated influences, such as skills of workers, managerial skill, changes in technology, capital investment per worker, utilization of capital, layout and flow of materials, and labor-management relations.

Further information on sources, methodology, trends, and underlying factors influencing the measures is available in the publication titled Methods and Procedures for Developing Indexes of Output Per Man-Hour in the Private Economy, available upon request from the Bureau of Labor Statistics, U.S. Department of Labor, Washington, D.C., 20212.

Table 1. Indexes of output per man-hour and related data, private economy:^{1/} Annual averages, 1947-66

(Man-hour estimates based primarily on establishment data)

(1957-59=100)

Year	Output per man-hour			Output per employed person			Output			Employment			Man-hours		
	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm
1947	69.1	49.8	74.3	73.6	55.6	77.5	67.6	82.1	66.8	91.9	147.7	86.2	97.8	164.8	89.9
1948	72.1	58.0	76.6	76.0	64.3	79.3	70.8	91.8	69.8	93.1	142.8	88.0	98.2	158.4	91.1
1949	74.4	56.5	79.6	77.4	61.6	81.3	70.6	88.9	69.7	91.2	144.4	85.7	94.9	157.3	87.6
1950	80.5	64.4	84.6	83.9	69.1	87.0	77.9	93.7	77.0	92.9	135.6	88.5	96.8	145.6	91.0
1951	82.9	64.7	86.4	86.3	70.2	88.8	82.8	88.9	82.5	96.0	126.7	92.9	99.9	137.5	95.5
1952	84.4	70.3	87.1	87.5	75.5	89.6	84.8	91.8	84.5	96.9	121.6	94.3	100.5	130.6	97.0
1953	88.0	79.6	89.7	90.7	86.6	91.7	89.1	96.6	88.8	98.2	111.6	96.8	101.3	121.4	99.0
1954	90.0	83.7	91.6	91.9	89.4	92.9	87.9	98.6	87.4	95.6	110.3	94.1	97.7	117.8	95.4
1955	94.0	84.4	95.7	96.4	88.8	97.5	95.4	101.0	95.1	99.0	113.7	97.5	101.5	119.6	99.4
1956	94.1	88.0	95.2	95.8	90.6	96.6	97.2	100.5	97.1	101.5	110.9	100.5	103.3	114.2	102.0
1957	96.9	93.3	97.2	97.2	93.9	97.6	98.6	98.1	98.6	101.4	104.5	101.0	101.8	105.1	101.4
1958	99.8	103.0	99.7	99.3	102.7	99.2	97.3	100.5	97.2	98.0	97.9	98.0	97.5	97.6	97.5
1959	103.4	104.8	103.1	103.5	104.5	103.3	104.1	101.9	104.2	100.6	97.5	100.9	100.7	97.2	101.1
1960	105.0	110.7	104.4	104.5	111.1	104.0	106.6	105.8	106.7	102.0	95.2	102.6	101.5	95.6	102.2
1961	108.5	119.4	107.3	117.9	106.3	108.6	107.2	108.7	101.2	90.9	102.3	100.1	89.8	101.3	
1962	113.6	122.2	112.2	112.6	122.3	111.4	116.0	106.8	116.5	103.0	87.3	104.6	102.1	87.4	103.8
1963	117.6	133.1	115.6	116.5	132.2	114.6	120.8	110.1	121.4	103.7	83.3	105.9	102.7	82.7	105.0
1964	122.1	133.7	119.9	120.6	133.0	118.6	127.5	106.3	128.6	105.7	79.9	108.4	104.4	79.5	107.3
1965	125.5	148.8	122.4	124.5	149.9	121.8	135.3	115.0	136.4	108.7	76.7	112.0	107.8	77.3	111.4
1966	129.0	155.8	125.3	127.2	156.0	124.0	142.6	109.2	144.3	112.1	70.0	116.4	110.5	70.1	115.2

^{1/} Output refers to gross national product in 1958 dollars. Employment includes self-employed and unpaid family workers as well as wage and salary workers.

Table 1-A: Output per man-hour and related data, private economy, 1947-66
 (Man-hour estimates based primarily on establishment data)

Year	Output per man-hour (1958 dollars)			Output per employed person (1958 dollars)			Output (billions of 1958 dollars)			Employment (thousands)			Man-hours (millions)		
	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm
1947	\$2.27	\$.77	\$2.59	5,070	2,034	5,609	281.4	17.0	264.4	55,498	8,356	47,142	124,192	21,986	102,206
1948	2.37	.90	2.67	5,248	2,352	5,734	295.0	19.0	276.0	56,212	8,077	48,135	124,688	21,126	103,562
1949	2.44	.88	2.77	5,343	2,252	5,881	294.1	18.4	275.7	55,047	8,170	46,877	120,551	20,987	99,564
1950	2.64	1.00	2.95	5,778	2,529	6,293	324.2	19.4	304.8	56,105	7,671	48,434	122,900	19,426	103,474
1951	2.72	1.00	3.01	5,943	2,566	6,420	344.6	18.4	326.2	57,983	7,171	50,812	126,840	18,346	108,494
1952	2.77	1.09	3.03	6,038	2,762	6,475	353.2	19.0	334.2	58,494	6,878	51,616	127,611	17,418	110,193
1953	2.88	1.24	3.12	6,257	3,166	6,625	371.1	20.0	351.1	59,312	6,317	52,995	128,681	16,194	112,487
1954	2.95	1.30	3.19	6,342	3,268	6,715	366.2	20.4	345.8	57,739	6,242	51,497	124,086	15,710	108,376
1955	3.08	1.31	3.33	6,645	3,248	7,054	397.2	20.9	376.3	59,777	6,434	53,343	128,920	15,959	112,961
1956	3.09	1.37	3.31	6,608	3,316	6,983	404.8	20.8	384.0	61,263	6,272	54,991	131,153	15,231	115,922
1957	3.18	1.45	3.39	6,708	3,433	7,058	410.5	20.3	390.2	61,197	5,914	55,283	129,253	14,023	115,229
1958	3.27	1.60	3.47	6,846	3,755	7,165	405.2	20.8	384.4	59,186	5,540	53,646	123,855	13,021	110,834
1959	3.39	1.63	3.59	7,135	3,823	7,465	433.4	21.1	412.3	60,747	5,519	55,228	127,856	12,972	114,884
1960	3.44	1.72	3.63	7,213	4,064	7,515	444.0	21.9	422.1	61,558	5,389	56,169	128,956	12,750	116,206
1961	3.56	1.85	3.74	7,402	4,317	7,685	452.3	22.2	430.1	61,109	5,142	55,967	127,064	11,979	115,085
1962	3.73	1.90	3.91	7,769	4,476	8,053	482.9	22.1	460.8	62,161	4,937	57,224	129,595	11,655	117,939
1963	3.86	2.07	4.03	8,034	4,839	8,293	503.2	22.8	480.4	62,637	4,712	57,925	130,361	11,026	119,335
1964	4.00	2.07	4.17	8,314	4,866	8,577	530.8	22.0	508.8	63,843	4,521	59,322	132,567	10,603	121,964
1965	4.12	2.31	4.26	8,583	5,483	8,803	563.5	23.8	539.7	65,651	4,341	61,310	136,868	10,316	126,553
1966	4.23	2.42	4.36	8,773	5,704	8,964	593.6	22.6	571.0	67,662	3,962	63,700	140,291	9,354	130,938

Table 2. Indexes of output per man-hour and related data, private economy:^{1/} Annual averages, 1947-66
 (Man-hour estimates based primarily on labor force data)

(1957-59=100)

Year	Output per man-hour			Output per employed person			Output			Employment			Man-hours		
	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm
1947	67.9	49.8	72.9	73.2	55.6	77.2	67.6	82.1	66.8	92.4	147.7	86.5	99.6	164.8	91.6
1948	70.2	58.0	74.5	75.0	64.3	78.3	70.8	91.8	69.8	94.4	142.8	89.2	100.8	158.7	93.7
1949	71.9	56.1	76.8	75.8	61.6	79.6	70.6	88.9	69.7	93.1	144.4	87.6	98.2	158.6	90.8
1950	78.5	64.1	82.4	82.2	69.1	85.1	77.9	93.7	77.0	94.8	135.6	90.5	99.2	146.2	93.4
1951	82.1	64.3	85.7	86.2	70.2	88.9	82.8	88.9	82.5	96.1	126.7	92.8	100.9	138.3	96.3
1952	84.5	69.9	87.5	88.4	75.5	90.7	84.8	91.8	84.5	95.9	121.6	93.2	100.4	131.3	96.6
1953	88.4	79.1	90.4	92.2	86.6	93.5	89.1	96.1	89.6	96.6	111.6	95.0	100.8	122.1	98.2
1954	90.8	83.3	92.8	92.8	89.4	94.0	87.9	98.6	87.4	94.7	110.3	93.0	96.8	118.3	94.2
1955	94.7	84.0	96.7	97.5	88.8	99.0	95.4	101.0	95.1	97.8	113.7	96.1	100.7	120.3	98.3
1956	94.6	87.5	95.9	96.6	90.6	97.6	97.2	100.5	97.1	100.6	110.9	99.5	102.7	114.9	101.2
1957	97.2	93.3	97.7	97.9	93.9	98.3	98.6	98.1	98.6	100.7	104.5	100.3	101.4	105.2	100.9
1958	99.4	103.1	99.2	98.9	102.7	98.7	97.3	100.5	97.2	98.4	97.9	98.5	97.9	97.5	98.0
1959	103.4	104.7	103.1	103.3	104.5	103.0	104.1	101.9	104.2	100.8	107.5	101.2	100.7	97.3	101.1
1960	104.5	110.7	103.8	104.2	111.1	103.5	106.6	105.8	106.7	102.3	95.2	103.1	102.0	95.6	102.8
1961	107.3	119.9	105.9	106.3	117.9	105.1	108.6	107.2	108.7	102.2	90.9	103.4	101.2	89.4	102.6
1962	113.0	122.3	111.4	112.2	122.3	110.8	116.0	106.8	116.5	103.4	87.3	105.1	102.7	87.3	104.6
1963	116.7	133.5	114.4	115.5	132.2	113.7	120.8	110.1	121.4	104.6	83.3	106.8	103.5	82.5	106.1
1964	120.7	134.0	118.2	119.4	133.0	117.2	127.5	106.3	128.6	106.8	79.9	109.7	105.6	79.3	108.8
1965	124.2	149.0	120.9	123.6	149.9	120.6	135.3	115.0	136.4	109.5	76.7	113.1	108.9	77.2	112.8
1966	128.5	155.6	124.3	127.7	156.0	124.2	142.6	109.2	144.3	111.7	70.0	116.2	111.0	70.2	116.1

^{1/} Output refers to gross national product in 1958 dollars. Employment includes self-employed and unpaid family workers as well as wage and salary workers.

Table 2-A: Output per man-hour and related data, private economy, 1947-66
 (Man-hour estimates based primarily on labor force data)

Year	Output per man-hour (1958 dollars)			Output per employed person (1958 dollars)			Output (billions of 1958 dollars)			Employment (thousands)			Man-hours (millions)		
	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm	Total private	Farm	Nonfarm	Farm	Nonfarm	
1947	\$2.39	\$.80	\$2.74	5,236	2,034	5,826	281.4	17.0	264.4	53,741	8,356	45,385	117,592	21,260	96,332
1948	2.48	.93	2.80	5,373	2,352	5,894	295.0	19.0	276.0	54,902	8,077	46,825	118,978	20,407	98,571
1949	2.54	.90	2.89	5,433	2,252	5,998	294.1	18.4	275.7	54,135	8,170	45,965	115,977	20,463	95,514
1950	2.77	1.03	3.10	5,880	2,529	6,422	324.2	19.4	304.8	55,135	7,671	47,464	117,151	18,864	98,287
1951	2.89	1.03	3.22	6,168	2,566	6,699	344.6	18.4	326.2	55,868	7,171	48,697	119,120	17,850	101,270
1952	2.98	1.12	3.29	6,333	2,762	6,835	353.2	19.0	334.2	55,772	6,878	48,894	118,509	16,947	101,562
1953	3.12	1.27	3.40	6,605	3,166	7,041	371.1	20.0	351.1	56,182	6,317	49,865	119,025	15,756	103,269
1954	3.20	1.34	3.49	6,654	3,268	7,087	366.2	20.4	345.8	55,038	6,242	48,796	114,349	15,269	99,080
1955	3.34	1.35	3.64	6,984	3,248	7,461	397.2	20.9	376.3	56,869	6,434	50,435	118,923	15,527	103,396
1956	3.34	1.40	3.61	6,920	3,316	7,352	404.8	20.8	384.0	58,500	6,272	52,228	121,258	14,821	106,437
1957	3.43	1.50	3.68	7,011	3,433	7,413	410.5	20.3	390.2	58,551	5,914	52,637	119,715	13,575	106,140
1958	3.50	1.65	3.73	7,080	3,755	7,437	405.2	20.8	384.4	57,230	5,540	51,690	115,624	12,579	103,045
1959	3.64	1.68	3.88	7,394	3,823	7,765	433.4	21.1	412.3	58,617	5,519	53,098	118,925	12,556	106,369
1960	3.68	1.78	3.90	7,466	4,064	7,805	444.0	21.9	422.1	59,470	5,389	54,081	120,501	12,329	108,172
1961	3.79	1.92	3.98	7,616	4,317	7,928	452.3	22.2	430.1	59,392	5,142	54,250	119,493	11,536	107,957
1962	3.98	1.96	4.19	8,033	4,476	8,351	482.9	22.1	460.8	60,113	4,937	55,176	121,284	11,259	110,025
1963	4.12	2.14	4.31	8,279	4,839	8,568	503.2	22.8	480.4	60,780	4,712	56,068	122,197	10,640	111,557
1964	4.26	2.15	4.45	8,549	4,866	8,838	530.8	22.0	508.8	62,089	4,521	57,568	124,662	10,232	114,430
1965	4.38	2.39	4.55	8,850	5,483	9,096	563.5	23.8	539.7	63,672	4,341	59,331	128,613	9,964	118,649
1966	4.53	2.50	4.68	9,144	5,704	9,367	593.6	22.6	571.0	64,919	3,962	60,957	131,132	9,056	122,076



3 0112 043214235